

Cisco Desktop Collaboration Experience DX600 Series

Cisco® Desktop Collaboration Experience DX600 Series is a next-generation IP endpoint portfolio that delivers powerful high-quality communications and collaboration for a variety of office environments (Figure 1).

Figure 1. Cisco Desktop Collaboration Experience DX650



Product Overview

The Cisco Desktop Collaboration Experience DX650 is purpose-built to deliver integrated, always-on and secure, high-definition (HD) voice and video communications, conferencing with Cisco WebEx® meeting applications, presence and instant messaging with the Cisco Jabber™ messaging integration platform, and on-demand access to cloud services. It is intended to meet the demands of people who must collaborate effectively with experts, even if separated by long distances.

Collaboration capabilities are available right out of the box with the Cisco DX650. It provides native support for HD 1080p at 30 frames-per-second (fps); video calling interoperability to other H.264 video endpoints, including Cisco Unified IP Phone 8900 and 9900 Series models; the Cisco Jabber platform on personal mobile devices; and (CTS)-compliant Cisco TelePresence® endpoints and room systems.

Integrated browsing provides instant access to cloud services. In addition, because it is Compatibility Test Suite (CTS) compliant with the open Android platform, the Cisco DX650 offers you access to the ecosystem of Cisco and commercial third-party applications developed for Android. Customers can also develop custom applications for Android and deploy them to both their DX650 and mobile users. The Cisco DX650 also takes advantage of the touch-directed ease of use of Android, and its ability to personalize experiences with customizable home screens, communications widgets, ringtones, and more.

The Cisco DX650 is designed for information workers, workers in shared workspace settings, and midlevel and senior executives. Corporate, branch, and virtual offices along with home teleworking environments are just some examples of deployment scenarios.

The Cisco DX650 introduces a new era in employee productivity, fostering new opportunities to collaboration-enable your business processes and workflows, advancing your business results and meeting your business needs for both today and tomorrow.

The main attributes of the Cisco DX650 include:

- Integrated 7-inch touchscreen, with support for multitouch gestures
- HD video with H.264 Advanced Video Coding (AVC) video calling up to 1080p at 30 fps
- Choice of 802.11 a/b/g/n desktop Wi-Fi connectivity or Gigabit Ethernet network connectivity, and switch port available for a downstream PC
- Embedded Bluetooth radio and 2 full-size USB 2.0 ports for headsets and the camera
- Dual Independent Displays with an external monitor using High-Definition Multimedia Interface (HDMI) with resolution up to 1920 x 1200
- Android 4.0 operating system and Google Play Store access for third-party applications
- Integrated suites of collaborative applications: Cisco WebEx conferencing and Cisco Jabber Instant Messaging (IM), presence, email, calendar, contacts, visual voicemail, and voice and video through Cisco Unified Communications Manager
- Support for Cisco Unified Communications features, devices, and applications management and security policies from Cisco Unified Communications Manager 7.1.5, 8.5.1, 8.6.2, and later with system releases

Product Features and Specifications

Tables 1 through 3 summarize specifications, features, and other information.

Table 1. Product Specifications

Feature	Benefit
Hardware	
Ergonomic design	Touch-based phone application provides intuitive arrangement of lines, features, and calls. Transfer, Conference, and Hold appear on hard keys
Display	<ul style="list-style-type: none">• 7-in. diagonal (153.6 Horizontal x 90.0 Vertical)• Backlit, WSVGA capacitive touchscreen LCD with 1024 x 600 pixel effective resolution• Support for various multitouch gesture commands to interact with contacts, collaboration applications, voice and video calling, and third-party applications
Front camera	<ul style="list-style-type: none">• HD video communication with Cisco TelePresence interoperability and other H.264 video endpoint interoperation for immersive video communication• Capable of 1080p 30-fps HD video encoding and decoding• LED indicator to show video status
Operating system	Android 4.0.1 (Ice Cream Sandwich)
Processor	TI OMAP 4460 1.5 GHz
Storage	8-GB eMMC flash memory
Memory	1-GB RAM

Feature	Benefit
Ports and slots	<ul style="list-style-type: none"> • HDMI • 3.5-mm stereo headset jack (can be used for external speakers) • 2 full-size USB (keyboard, mouse, and headset connectivity) • Micro USB • Micro Secure Digital (SD) slot
Physical buttons	<ul style="list-style-type: none"> • Conference • Transfer • Hold • End Call • Volume Up/Down • Back-lit Mute • Video Mute • Speakerphone • Headset • Lock button
Visual indicator	<ul style="list-style-type: none"> • Message-waiting indicator (MWI) on handset • Cisco EnergyWise™ Sleep Indicator on Lock button
Physical dimensions (H x W x D)	11.63 x 10.25 x 1.88 in. (29.5 x 26 x 4.8 cm) In slab mode with the foot stand removed
Power	IEEE Power over Ethernet (PoE) 802.3af and 802.3at are supported, and class 4 is supported. The DX650 is compatible with both class 3 and class 4 IEEE PoE switch blades and supports both Cisco Discovery Protocol and Link Layer Discovery Protocol - Power over Ethernet (LLDP-PoE)
Connectivity	
Ethernet	Internal 2-port Cisco Ethernet switch allows for a direct connection to a 10/100/1000BASE-T Ethernet network through an RJ-45 interface with single LAN connectivity for both the phone and a co-located PC. The system administrator can designate separate VLANs (802.1Q) for the PC and phone, providing improved security and reliability of voice and data traffic
Desktop Wi-Fi Ethernet	As an alternative to wired Ethernet, this model supports an onboard Wi-Fi radio and antenna that enables connectivity to a Wi-Fi access point, thereby saving on the labor costs of pulling Ethernet cables to every work location
Network features	<ul style="list-style-type: none"> • Cisco Discovery Protocol • LLDP-PoE • Session Initiation Protocol (SIP) for signaling • Dynamic Host Configuration Protocol (DHCP) client or static configuration • Transparent secure roaming • Switch auto-negotiation • Domain Name System (DNS) • Web proxy • NT LAN Manager (NTLM) and Kerberos authentication • Trivial File Transfer Protocol (TFTP) • HTTP firmware management • Wi-Fi management • IPv4 configuration • Software port speed • PC port speed
Bluetooth	<ul style="list-style-type: none"> • Bluetooth 2.1 + Enhanced Data Rate (EDR), allowing untethered headset connections • Keyboard and mouse support for adding additional input accessories • Human Interface Device, hands-free and headset Bluetooth profiles
Accessories	
Cisco Solutions Plus external camera	Available separately, the Logitech Webcam C920-C for the Jabber® platform provides an external camera option for up to 1080p 30-fps video calls with an external display

Feature	Benefit
Firmware	
Provisioning and management	<ul style="list-style-type: none"> • Cisco Unified Communications Manager 8.6.2 • Backward compatibility with Cisco Unified Communications Manager 7.1.5 and 8.5.1 (no support for Android package [APK] provisioning in 7.1.5)
Upgrading process	<ul style="list-style-type: none"> • Software upgrade of the device and media station through Cisco Unified Communications Manager • Support for online firmware upgrades using TFTP • HTTP firmware management
Temperature range	
Operational temperature	23~131°F (-5~55°C)
Nonoperational temperature shock	-13~158°F (-25~70°C)
Temperature: Altitude (operational)	140°F (40°C) ambient condition to 9843 ft (3000m)
Temperature: Altitude (nonoperational)	Ambient condition to 15,000 ft (4572m)
Temperature: Humidity (nonoperational)	90% ± 5% relative humidity
Nonoperational hot temperature (storage)	158°F (70°C) ±2°C
Nonoperational cold temperature (storage)	-40°F (-40°C) ±2°C

Table 2. Software Features

Feature	Specifications
Android bundled applications	<ul style="list-style-type: none"> • Google Play (enabled by administrator through Cisco Unified Communications Manager; includes country-approved Google mobile services applications) • Calculator • Calendar • Camera • Clock • Contacts • Email (Internet Message Access Protocol [IMAP], Point of Presence 3 [POP3], and Microsoft Exchange (Active Sync) supported) • Gallery • Phone • Video player • Web browser
Cisco bundled applications	<ul style="list-style-type: none"> • Cisco AnyConnect® Secure Mobility Client (VPN) Version 3.0 • Cisco Jabber IM (which offers chat and presence capabilities) • Cisco WebEx conferencing Version 2.5 • Unified Inbox • Visual voicemail

Feature	Specifications
Language support	<ul style="list-style-type: none"> • Arabic, Egypt (ar_EG) • Bulgarian, Bulgaria (bg_BG) • Catalan, Spain (ca_ES) • Chinese, PRC (zh_CN) • Chinese, Taiwan (zh_TW) • Croatian, Croatia (hr_HR) • Czech, Czech Republic (cs_CZ) • Danish, Denmark (da_DK) • Dutch, Netherlands (nl_NL) • English, Britain (en_GB) • English, United States (en_US) • Finnish, Finland (fi_FI) • French, France (fr_FR) • German, Germany (de_DE) • Greek, Greece (el_GR) • Hebrew, Israel (he_IL) • Hungarian, Hungary (hu_HU) • Italian, Italy (it_IT) • Japanese (ja_JP) • Korean (ko_KR) • Latvian, Latvia (lv_LV) • Lithuanian, Lithuania (lt_LT) • Norwegian bokmål, Norway (nb_NO) • Polish (pl_PL) • Portuguese, Brazil (pt_BR) • Portuguese, Portugal (pt_PT) • Romanian, Romania (ro_RO) • Russian (ru_RU) • Serbian, Republic of Serbia (sr_RS) • Slovak, Slovakia (sk_SK) • Slovenian, Slovenia (sl_SI) • Spanish, Spain (es_ES) • Swedish, Sweden (sv_SE) • Thai, Thailand (th_TH) • Turkish, Turkey (tr_TR)
Calling feature support	<ul style="list-style-type: none"> • + Dialing • Abbreviated dialing • Adjustable ringing and volume levels • Adjustable display brightness • Auto-answer • Auto-detection of headset • Barge • Callback • Call forward • Call forward notification • Call history lists • Call park • Call pickup • Call timer • Call waiting • Caller ID • Corporate directory • Conference • Direct transfer • Extension mobility service

Feature	Specifications
	<ul style="list-style-type: none"> • Fast-dial service • Forced access codes and client matter codes • Group call pickup • Hold • Intercom • Immediate divert • Join • Last-number redial • Malicious-caller ID • Message-waiting indicator • Meet-me conference • Music on hold • Mute (audio and video) • Network profiles (automatic) • On- and off-network distinctive ringing • OPickUp • Personal directory • Predialing before sending • Privacy • Ring tone per line appearance • Service URL • Shared line • Time and date display • Transfer • Visual Voicemail • Voicemail
Audio codec support	G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs
Security Features	
Hardware	<ul style="list-style-type: none"> • Secure boot • Secure credential storage • Image authentication and encryption • Random bit generation • Hardware cryptographic acceleration • Encrypted file system
Certificate management	<ul style="list-style-type: none"> • Manufacturer-installed certificates • Locally significant certificates
Network	<ul style="list-style-type: none"> • Wired: 802.1x Transport Layer Security (TLS) • Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) • Wireless Equivalent Privacy (WEP) • Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) • Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)
Media and data	<ul style="list-style-type: none"> • TLS and Secure Real-Time Transport Protocol (SRTP) • Secure HTTP (HTTPS) for clients
Enterprise access	<ul style="list-style-type: none"> • Cisco AnyConnect Secure Mobility Client • Web Proxy • NTLM and Kerberos authentication
Device Management	<ul style="list-style-type: none"> • Remote wipe • ActiveSync remote wipe (email, contacts, calendar, etc.) • Self-service wipe • Wipe after unsuccessful login attempts • Factory reset

Feature	Specifications
Policy management	<ul style="list-style-type: none"> • Password complexity • Disable USB • Secure Digital I/O (SDIO) enable/disable • Bluetooth • Wi-Fi • Access to Android market • Lock device • Android debug bridge

Table 3. Video Specifications

Specification	Description
Video standards	H.264 and AVC
Frame rates	30 fps (maximum) using H.264 and AVC for videoconferencing
Frame or picture formats	CIF (352 x 288 pixels) VGA (640 x 480 pixels) 240p (432 x 240 pixels) 360p (640 x 360 pixels) 480p (848 x 480 pixels) WSVGA (1024 x 600 pixels) 720p (1280 x 720 pixels) 1080p (1920 x 1080 pixels)
Supported HDMI resolutions	1920x1200 (WUXGA) 1920x1080 (1080p) 1280x720 (720p) 1680x1050

Licensing

Phone licensing is dependent on the call-control platform and its policies. For the Cisco Unified Communications Manager, the Cisco DX650 requires four Device License Units (DLUs) or an Enhanced IP User Connect License for Cisco Unified Communications Manager Release 7.1(5) and later. There are no special licenses plus phone bundles for tier 2 distributors. The DX650 is not supported on third-party call-control systems.

Warranty Information

Find warranty information on Cisco.com at the [Product Warranties](#) page.

Ordering Information

You can order the Cisco DX650 as a standalone product. If you plan to deploy the DX650 in an environment that does not use PoE, you should order the Power Cube 4 and use it to power the endpoint. To replace a broken handset or coil cord, you can order the spare handset and coil cord for the DX650 separately.

To place an order, visit the [Cisco Ordering Home Page](#) and refer to Tables 4 through 6. To download software, visit the [Cisco Software Center](#).

Table 4. Ordering Information

Product Name	Part Number
Cisco Desktop Collaboration Experience DX650	CP-DX650-K9=

Table 5. Spare Parts

Product Name	Part Number
Spare Handset for Cisco Desktop Collaboration Experience DX650	CP-DX-HS=
Spare Coil Cord for Cisco Desktop Collaboration Experience DX650	CP-DX-CORD=

Table 6. Local Power Options: Cube and Regional Cords

(Note: The Cisco DX650 uses the same Power Cube 4 configuration that is available for the Cisco Unified IP Phone 8900 and 9900 Series endpoints. Power Cube 4 supports up to 44W and is internationally rated for different power grids worldwide.)

Product Name	Part Number
Cisco Unified IP Endpoint Power Cube 4: 48V; 0.917A; 47-63Hz; 100-240V~0.8A	CP-PWR-CUBE-4=
Asia Pacific	CP-PWR-CORD-AP=
Argentina	CP-PWR-CORD-AR=
Australia	CP-PWR-CORD-AU=
European Community	CP-PWR-CORD-CE=
China	CP-PWR-CORD-CN=
Japan	CP-PWR-CORD-JP=
North America	CP-PWR-CORD-NA=
Switzerland	CP-PWR-CORD-SW=
United Kingdom	CP-PWR-CORD-UK=

Cisco Services

Using the Cisco Lifecycle Services approach, Cisco and our partners offer a broad portfolio of end-to-end services to support the Cisco Unified Communications System. These services are based on proven methodologies for deploying, operating, and optimizing IP communications solutions. Initial planning and design services, for example, can help you meet aggressive deployment schedules and reduce network disruption during implementation. Operate services reduce the risk of communications downtime with expert technical support, and optimize services enhance solution performance for operational excellence. Cisco and our partners offer a system-level service and support approach that can help you create and maintain a resilient, converged network that meets your business needs.

For More Information

For more information about the Cisco Desktop Collaboration Experience DX650, visit <http://www.cisco.com/go/dce> or contact your local Cisco account representative.



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